PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BCS 03-4001		FOR FURTHER ACTI		See Form PCT/IPEA/416			
International application No.		International filing date (day	//month/year)	Priority date (day/month/year)	'		
	/EP2004/001786		28.01.2004		03.02.2003		
	national Patent Classific D311 <i>I</i> 54	ation (IPC) or na	tional classification and IPC				
Appli BAY	ER CROPSCIENC						
1.	Authority under Arti	cle 35 and trar	ismitted to the applicant a	coording to running as	s International Preliminary E. 3.	xamining	
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.						
3.	This report is also a	ccompanied b	y ANNEXES, comprising:		6 N		
1		licent and t	s the International Bureau	i) a total of sheets, a	s follows:	f this report	
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the						
	 b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 						
4.	This report contain	es Indications r	elating to the following ite	ms:			
4.							
1		Basis of the op	inion				
1	☐ Box No. II	Priority		d to novelly, inventive	step and industrial applical	oility	
1				a to flovelty, investing		-	
1	-	Lack of unity o	f invention	with regard to novelt	ty, inventive step or industria	ıl	
		applicability; c	tations and explanations	supporting such state	ement		
1		Certain docum					
	☐ Box No. VII	Certain defect	s in the international appli	cation			
j	☐ Box No. VIII	Certain observ	ations on the internation	al application			
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Da	ate of submission of the	demand		Date of completion of t	ulis report		
02	2.09.2004	-		07.01.2005			
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Name and mailing address of the international preliminary examining authority:					1 11		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/001786

	Box	No. I Basis of the report					
1.	\A/i+b	Vith regard to the language , this report is based on the international application in the language in which it was led, unless otherwise indicated under this item.					
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3)					
2.		regard to the elements* of the international application, this report is based on <i>(replacement sheets which</i> be been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ort as "originally filed" and are not annexed to this report):					
	Des	cription, Pages					
	1-12	as originally filed					
	Claims, Numbers						
1-26		as originally filed					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
3	. 🗆	The amendments have resulted in the cancellation of:					
		☐ the description, pages ☐ the claims, Nos.					
		☐ the drawings, sheets/figs					
		☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):					
4	i. □ ha Su	This report has been established as if (some of) the amendments annexed to this report and listed below d not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the pplemental Box (Rule 70.2(c)).					
		 □ the description, pages □ the claims, Nos. □ the drawings, sheets/figs □ the sequence listing (specify): □ any table(s) related to sequence listing (specify): 					
	*	If item 4 applies, some or all of these sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/001786

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims Claims 1-17,19,20,23,26

Yes: Claims

No:

18,21,22,24,25

Inventive step (IS)

1-17,21-26

No: Claims 18-20

Industrial applicability (IA)

Yes: Claims

1-26

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item V.

The following documents are referred to in this communication:

D1: US 6 034 121 A

D2: PATENT ABSTRACTS OF JAPAN, vol. 012, no. 096, 29 March 1988;

JP 62 228001 A

D3: DATABASE CROSSFIRE BEILSTEIN [Online] Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE;

XP002236953, Database accession no. 578115

D4: J. ORG. CHEM., vol. 63, 1998, pages 8640-8641 D5: J. ORG. CHEM., vol. 48, 1983, pages 1051-1055

D6: J. ORG. CHEM., vol. 21, 1956, pages 516-519

2. NOVELTY

The subject-matter of some claims cannot be considered as new (Article 33(2) PCT). The subject-matter of claim 24 and 25 is anticipated by D1 (Example 122, 195 and claim 1). Furthermore, the subject-matter of claim 18 is anticipated by D2 (scheme page 5, R1= CN). The subject-matter of claim 21 and 22 is also anticipated by D2 (compounds of formula (I), Example 23).

3. INVENTIVE STEP

The subject-matter of claims 18-20 does not fulfil the requirements of Article 33(3) PCT.

The closest state of the art for claim 18 is represented by D2 and D3. The closest state of the art for claim 19 is represented by D4. The closest state of the art for claim 20 is represented by D5 and D6. The problem resides in the provision of alternative processes for the preparation of compounds of formula III (claim 18), II (claim 19 and I (claim 20). The environment of the active center of the molecules in the prior art and the present application are the same. Thus, the argumentation as given in the description (passage bridging page 1 and 2) is not valid in view of D4. The transformation of claim 20 can be seen as general knowledge of the man skilled in the art. The problem underlying the present application must, therefore, be seen in the provision of a processes having unexpected effects, because the proposed solution would be seen as an obvious alternative. In the absence of comparative test results or

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International application No.

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other appropriate information it is not possible to decide whether such a problem has been solved or not.

The subject-matter of the other claims can be considered as involving an inventive step (Article 33(3) PCT). The claimed synthesis sequence of claim 1 has not be described or suggested in any of the cited documents.